SOUTHWEST MUSEUM

NUMBER 25

THE HOPI INDIANS

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HOPI FARMER CARRYING HOME THE CORN (Photo by C. C. Pierce)

1953

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TO SEE SEES TO SEE SEE

agriculture. ence is much more in evidence. Many material traits have Here, especially since the Second World War, Caucasian influfundamentally a sedentary people, we shall first consider their new traits added to those of native origin. Since the Hopi are been lost completely; many others drastically changed; many Now we shall turn our attention to material culture traits.

crafts, greater assurance against starvation. ples, including the Pueblo Indians, the Aztecs, Mayans, and Peruvians. With the domestication of maize came a sedentary mode of life, permanent settlements, more time for the arts and It has played an important role in the religions of many peothe lives of many native peoples in the Western Hemisphere before the time of Christ, it has been the governing factor in tion of Hopi existence. Domesticated in the Americas long basis of a culture, "maize" would represent the very founda-FOOD QUEST. If any one word can symbolize the economic

such a migration was enforced by nomadic Indians swooping decades, or generations later, moving again, taking with them corn and other seeds with which to begin life anew. Usually carrying off the crops. Ultimately these periodic predatory down upon a village's farmlands just at harvest-time and the area, building pueblos and tilling the land, then, years, throughout Tusayan, tell how they migrated slowly through For uncounted centuries the Hopi have been sedentary farm Their legends, and the ruins of their villages scattered



A Hopi Cornfigur. (Charles Francis Saunders photo.)

both neighbors and climate. protected home. Life has not been easy for the people of raids would cause the Hopi to move on in search of a more Tusayan, but they have been winning the struggle against

grow. Seldom were seeds regarded as potential plants, telling them what crops were wanted and where they should earlier generations believed that seeds were signs to the gods, closely associated. Many religious observances are connected and his crops. Indeed it should be noted that the two are with fertility, rainfall, and a successful harvest. It has been said that a Hopi's chief concerns are his prayers Hopi of

Shovel-like wooden hoes were also used. planting stick, or dibble, equipped with a flattened blade day he still grows these and has added many plants and fruit trees acquired from the white man. has had his cornfields, his cotton patches, and his gardens of in one of the valleys of Tusayan, or on a mesatop, the Hopi farming methods were very simple. Holes were dug with a beans, squash, gourds, sunflowers, and other native plants. Whether his home has been near the Little Colorado River, In pre-contact days, J_o

wind and blowing sand often rip the delicate leaves to shreds. well started when they reach the open air. Nevertheless, breaks. or other scrap are placed around the plants to serve as windin which the kernels are placed is quite deep, the plants are dug about five, paces apart. continues sporadically for two or three months. Holes are fences rebuilt in February. Corn-planting begins in April and Heaped-up sand, piles of stones or brush, and, today, tin-cans the plants sprout, they protect one other, and, since the hole planted in each hole to increase the chance of maturation. In the typical Hopi cornfield, land is cleared and weeded Three to twelve kernels are

moon in June, corn and beans during the early June moon, squashes and watermelons as it wanes. The most distant fields other seeds are planted-for example, muskmelons at halfare planted hrst. ing of the May moon and the period of the June moon all the ing the first phases of the May moon. Later, during the wan-In general it may be stated that sweet-corn is planted dur-

mark these fields with piles of stones to protect them from soil and dependent on a different water supply, and he will plots. He tries to select these so that each will be of different land than its members now need, each man may have several age size being about an acre. Because each clan controls more The Hopi farmer usually plants several cornfields, the aver-

encroachment and to warn herders. Sand-dune acreage is always in demand because the dunes retain water and thus reduce the need for irrigation. Also, the dunes serve as natural windbreaks. Each man's main field is on the flood-plain of a wash—the farmer counting on summer floods to irrigate the crops. To facilitate this flooding, partial dams are built in the washes and ditches are dug, thus affording all parts of the fields partially controlled irrigation. However, as during all earlier generations, if floods come they may destroy some or most of the plants; if they do not come, most of the crops will certainly die. Therefore the Snake Dance and other rain-producing ceremonies are held during the summer.

The farmers also cultivate small cornfields below the mesas where they can be irrigated with water from springs. The harvests from these fields, though small, are more dependable, and with the emergency supply stored by each family in years of abundant crops, will carry a family through a short drought. The farmers have learned from long experience that springs occur where the tops of impervious strata are exposed, because underground water, which may have been carried for miles along an impervious stratum, is there led to the surface. Farmers also know that, where such a stratum extends into the valley at shallow depth, it must be covered by only a thin layer of sand which will retain water that elsewhere would sink uselessly and be dissipated at great depth.

Spring runoff is often dammed, especially around First Mesa, and the controlled drainage diverted into small irriga-

tion channels.

Hopi corn is of a pure ancient strain. It has twelve rows of kernels that may be white, yellow, carmine, blue, black, or variegated in color. The kernels are even, are not indented.

Sweet-corn is harvested and baked in the field, usually by family or clan groups. Earthen ovens are erected and rituals are observed during the baking, an operation that may last for several days. Harvested in September, the baked sweetcorn is stored. It may later be boiled or ground into meal. There have been disputes over the rights of farmers from

There have been disputes over the rights of farmers from the different Hopi villages to land in the washes between the mesas. As a rule, however, it is accepted that First Mesa farmers use the land on both sides of the mesa, with the Tano of Hano pueblo confined to lands upstream. Second Mesa farmers work the adjacent lowlands and Polacca Wash. The boundary between Second and Third Mesa lands has been set on the Second Mesa side of Mañyaóvi Peak in Oraibi Wash.

nuts, coxcomb, peas, sorghum, radishes, cabbage, cauliflower, artichokes, fennel, carrots, cucumbers, coriander, turnips and chile peppers, watermelons, tomatoes, wheat, beets, lettuce, peawalled gardens. Among those which Spaniards, Mormons, the added to those which prehistoric Hopi grew in their rockplanted in the gardens and often grow very well. Some are task. As in prehistoric times, wild seeds are gathered and women and girls tend the gardens, and hand-irrigation is their compared with that grown in the regular gardens. Some corn raised in the cornfields, but the proportion is not large when United States Government traders have introduced are onions, roles in Hopi economy. Many white-men's crops have been yucca, juniper, cattail, etc., have thus assumed as least minor life. Saltbrush, mint, wild potatoes, ironwood, cottonwood used as food, some are employed in other aspects of Hopi irrigated by hand therefrom. Occasionally garden crops are Whereas men and boys tend the valley corn- and cotton-fields, and garden crops are grown in small patches on the mesatops Most of the Hopi gardens are planted near springs and are

One of the most important additions to the Hopi diet since the white man came, is fruit. Currants, prickly-pears, and other berries and cactus fruits were the only local native fruits. The first Spaniards introduced peaches. Apples, apricots, cherries, and pears are planted today in sheltered coves on the mesatops and in seepage areas around the bases of the mesas. More than 800 acres are now in fruit and almond orchards. These are tended by the men.

Stephen' gives as an average planting for the three mesas: 3600 acres in corn, 2000 acres in other edible plants, 1000 acres in orchards. From the 3600 acres of corn, he estimated a yield of 2,500,000 pounds, of which 1,500,000 pounds would be consumed, while the remainder would be sold to traders, traded to the Navaho, used in general barter, and stored for future emergencies.

Harvesting normally begins with sweet-corn. The main crops are brought in during September, beans being the last gathered. In olden days, before there were burros and wagons, harvested crops were carried to the pueblos by men, women, and children. The most active people went to the farthest fields, brought the corn part way, and gave it to others who carried it to the homes of the growers. There, the women

^{&#}x27;Stephen, Alexander M., "Hopi Journal," part 2: Columbia University Contributions to Anthropology, vol. 2, pp. 954-955. New York, 1936.

of each harvest day. Relatives and friends still work together, is a community undertaking, feasts are customary at the end but the large-scale community aspect of the harvest has would spread it on the roof-tops. Since the harvest was and

are predominantly farmers, they are gatherers as well. Plants used in beverages. Thus it will be seen that, while the Hopi some other capacity. used in medicines, religious observances, arts and crafts, or in view are included in native Hopi ethnobotany because they are and plant-parts not considered from a nutritional point of fruits, etc. Sumac and mistletoe berries and Thelesperma are These include yucca fruits, spring greens, nuts, seeds, cactus As in the past, wild plants are gathered and used for food

others; staple or rare; garden or field; flavors (these are nonthemselves learn to dislike those that are rare. staples). People learn to like staple foods and often make For example: Edible or not; edible by some people, not by The Hopi classify their foodstuffs in several different ways.

eaten raw. is dried, then later shredded by pounding; this is often or boiled. roasting, grilling, baking. Meat may be stewed, grilled, roasted Native methods of cooking would include stewing, boiling, Roasting is accomplished in hot ashes. Much meat

nuts (and wood), and game. Berry patches scattered over "Spirit Land" to their destination the Hopi through the tain items. For example, in spite of the proximity of the without noting the fact that long excursions are made for cermany miles of open country are still visited regularly by Hopi have also been made to the San Francisco Mountains for pinejunction of the Colorado and Little Colorado rivers. Treks centuries have made the long trip to salt deposits near the No discussion of native Hopi food habits could be ended

of life; but very distinct changes have occurred in the Hopi beasts of burden. Furthermore, sheep's wool has replaced cotthe problems facing the family providers. Sheep and cattle brought sheep, cattle, horses, and burros. These animals eased that the early Spaniards brought many new foods; they also food economy since the white man came. It has been noted afforded meat, while horses and burros served as greatly needed Today, as during past centuries, corn remains the Hopi staff

'For complete lists of useful plants, see Alfred F. Whiting's Ethnobotany of the Hopi, Bulletin 15, Museum of Northern Arizona, Flagstaff, 1989.

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staple has almost ceased. ton to such an extent that the production of this prehistoric

ally, this task is handled on a community basis. Herds are shearing time arrives, all the owners work with the herds. Since few individuals have time to tend their flocks continu-Boys also aid in this work. When lambs are born, or when grouped together and the men take turns watching them. Today it is sometimes necessary to take the flocks far from the Hopi herds and flocks are owned and cared for by the men.



A HOPI FLOCK OF SHEEP AND GOATS. (Charles Francis Saunders photo.)

to do so, however, the herders and sheep return to the mesatops each evening, the flocks being bedded down in stonethe fields for considerable periods of time. When it is possible the animais. mesas; therefore some herders and their charges remain in far from home occasionally hire Navaho men or boys to tend fenced corrals just outside the village or just below the mesa Those stockowners who are forced to take their charges

and stock cooperatives formed. Unfortunately the condition size of individual herds and flocks, and this has brought hardof the range-land presents a serious problem: overgrazing has husbandry have been raised, the range water-supply improved ship to many a Hopi family. The government is trying to The Government has ordered a sharp reduction in the legal led to depletion of the food-supply and to erosion of the soil I hrough recent government action, standards of anima

of the traders working on the reservation are Hopi. as well as by Navaho who ride the daily bus from Tuba City people. trading posts are small, but important in the daily lives of the important and welcome aspect of the modern economy. advance credit and supply food in time of emergency are an ets, silver jewelry and other products of the arts and etc.) may be obtained in trade for corn and other crops, blanktrading post. Food (canned goods, flour, sugar, meat, potatoes trucks. Now, tools, seeds, machinery may be purchased at the of machinery and steel tools; use of horses, burros, wagons to Flagstaft. predominantly technical: school training in new methods, use Indeed the traders on the reservation and in town who wil Twentieth century Caucasian agricultural influences are The larger posts in the cities are frequented by Hopi crafts

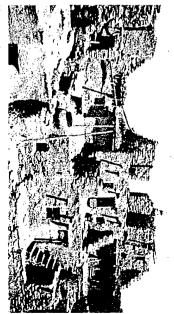
animals, antelope and even deer grazed near the Hopi mesas. The deer was truly the Hopi "culture-animal;" it supplied meat, hides, sinew, bone, antlers, and hoofs. Communal animal economic, significance. Rituals were observed to help the supplied with meat. Before over-grazing became general, small decades ago it was the man's responsibility to keep his family have almost replaced wild game on the menu, but only a few hand and returned to the villages alive. There they would be otes, turtles, and other small game. Eagles were trapped by wolves, mountain sheep, mountain lions, rabbits, foxes, coyclubs, rabbit-sticks, etc. flooded out of hiding, run down and killed with arrows, lances hunts were common, and had religious and social, as well as fattened and killed for their feathers. Hawks and other birds Game could be taken with nets, snared, trapped, stoned hunters and were also taken for feathers as well as meat. Turkeys were "Store-bought" meat and Hopi-owned domestic animals appease the animals they pursued and killed Animals hunted included deer,

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prehistoric Hopi. called the pobo were the only domesticated animals kept by Incidentally, turkeys and a short-legged ancient species of dog kept at the village; they too were wanted for their feathers.

from prehistoric to modern times. life is graphically illustrated by a study of architectural change ARCHITECTURE. The impact of Caucasian influence on Hopi

ously to form clan units, and these units were arranged in buildings wherein important public religious ceremonies were performed orderly fashion and in preconceived formation around courts while the populace sat on the roofs of the surrounding terraced In the past, Hopi homes in the pueblos were built contigu-



VIEW IN ORAIBI IN IT'S EARLIER DAYS, SHOWING POTTERY VESSELS USED FOR CHIMNEY-TOPS. (Photo, by Charles Francis Saunders)

built as individual clan units, and the custom was preserved been noted (pages 12, 50-51). When the Hopi lived in the lived in mesatop pueblos. The clan movements and migrawhen the Hopi moved to defensive sites on the mesas. these moved together, forming larger pueblos, the clans still valleys, many small villages were occupied by single clans. As tions that, after centuries, resulted in mesatop settlement have It should be remembered that the Hopi have not always

derly construction, and the rock surface has forced the prepattern in several ways. Since they have been building on the period of historic times, have deviated from the general pueblo mesas, their restricting configurations have resulted in less or-Hopi builders, at least during the mesatop occupational